

Appendix E



Raccoon

USFWS photo

Refuge Operations Needs System (RONS) and Management Maintenance System (MMS)

Table E-1. *Proposed projects currently in the RONS Tier 1 database (FY2002) and their inclusion in respective CCP Alternatives*

Project #	Project Description	Staffing (FTE's)	Cost Year 1 (x 1000)	Cost, recurring (x1000)	Project Duration (years)	Alt A	Alt B	Alt C	Alt D
98016	Provide handicap viewing opportunities at Meadowbrook Flowage		36		1		X	X	
00012	Enhance outreach and education by developing informational kiosks, informational signing for islands, and support for a seasonal mainland interpretive intern.		100	8	15		X		
00001	Improve public use and education programs -hire an Outdoor Recreation Planner (GS-7) .	1.0	118	53	15		X	X	
00002	Plan and implement public use program in Milbridge - hire an Outdoor Recreation Planner (GS-11).	1.0	139	74	15		X	X	
00004	Expand seabird restoration activities - hire a Wildlife Biologist (GS-11).	1.0	139	74	15		X	X	
00005	Expand baseline inventories of islands, mainland units and rare plant communities - hire a Wildlife Biologist (GS-9)	1.0	128	65	15		X	X	
00006	Study intertidal and marine resources and their availability to coastal wildlife - hire a Marine Ecologist (GS-11)	1.0	139	74	15		X	X	
00007	Enhance law enforcement to ensure resource protection and visitor safety -hire a seasonal law enforcement officer (GS-5).	0.5	64	26	15		X	X	
00008	Improve administrative support to assist with budget, personnel, and public inquiries - hire an administrative assistant (GS-6)	1.0	114	49	15		X	X	
00009	Improve maintenance support to enhance boundary signing and maintaining facilities - hire a maintenance worker (WG-8).	1.0	119	54	15		X	X	
00010	Improve maintenance of visitor facilities - hire a maintenance worker (WG-06).	1.0	114	49	15		X	X	
00011	Restore seabirds to six additional historic nesting islands; maintain existing 6 (12 total).		130	60	15		X	X	
99001	Improve resource protection, enforce seasonal closures, and hunting regulations - hire a full-time Law Enforcement Officer (GS-9).	1.0	193	66	15		X	X	

Table E-2. *Proposed projects currently in the RONS Tier 2 database (FY2002) and their inclusion in respective CCP Alternatives*

Project #	Project Description	Staffing (FTE's)	Cost Year 1 (x 1000)	Cost, recurring (x1000)	Project Duration (years)	Alt A	Alt B	Alt C	Alt D
99003	Develop interpretive trail, observation platform and parking area at Gouldsboro Bay Division - hire Maintenance Worker (WG-06).	1.0	123	49	15		X	X	
98004	Expand natural resource inventories on recently acquired properties		66	15	15		X	X	
98009	Improve grassland management to maintain habitat diversity		131	3	15		X	X	
99002	Construct Education Center/ Refuge Headquarters Complex		3,000 (const)	20	15		X	X	

Table E-3. *Proposed projects not currently in the RONS database and their relationship to respective CCP Alternatives and Refuge Complex goals*

Goal 1: perpetuate the biological diversity and integrity of upland cover types on the refuge complex's mainland coast to sustain high quality habitat for migratory birds

Project Description	Staffing (FTEs)	Cost Year 1 (x\$1000)	Cost recurring (x \$1000)	Project Duration (years)	Alt A	Alt B	Alt C	Alt D
Wildlife Biologist to oversee all mainland biological programs- (GS-11)	1.0	59	59	15			X	
Initiate rare plant surveys on Sawyer's Marsh and Gouldsboro Bay Divisions. Document locations and densities for baseline. Develop monitoring protocol.		15	15	3		X	X	
Initiate study to evaluate the effects of deer browsing on rare plant communities and structure of understory.		5	2	7		X	X	
Monitor refuge lands for invasive species. Eradicate invasive plants and restore native vegetation.		50	50	15			X	

Goal 3: perpetuate the biological diversity and integrity of upland cover types on the refuge complex's coastal islands to sustain high quality habitat for nesting bald eagles and migratory songbirds and raptors, and to protect rare plant sites

Project Description	Staffing (FTEs)	Cost Year 1 (x\$1000)	Cost recurring (x \$1000)	Project Duration (years)	Alt A	Alt B	Alt C	Alt D
Conduct spring and fall neotropical bird and raptor monitoring on at least three Refuge islands to determine their use of habitats.		20	20	5		X	X	
Complete cover type mapping for island habitats and incorporate into GIS.		10		1		X	X	
Monitor use of offshore islands by neotropical migrants, shorebirds and raptors. (20 islands)		120	120	5			X	
Develop island specific Habitat Management Plans - Hire Wildlife Biologist GS-9.	1.0	128	63	15			X	
Conduct baseline plant and wildlife inventories on at least six Refuge islands per year until all islands have been inventoried - (87 islands)		25	25	15		X		
Conduct baseline plant and wildlife inventories on at least thirteen islands per year until all islands have been inventoried - (151 islands)		52	52	15			X	

Goal 4: protect the high quality wetland habitats on the refuge complex's coastal islands to benefit nesting and migrating shorebirds and waterfowl

Project Description	Staffing (FTEs)	Cost Year 1 (x\$1000)	Cost recurring (x \$1000)	Project Duration (years)	Alt A	Alt B	Alt C	Alt D
Initiate research and monitoring on intertidal and marine habitats surrounding Refuge lands, including the effects of aquaculture & intertidal harvesting (20islands)		145	145	8			X	
Conduct fall shorebird migration surveys on at least three Refuge islands to determine use of habitats & concentrations.		10	10	5		X	X	
Participate in cooperative effort to survey, band, and monitor movements of wintering purple sandpipers on coastal islands.		3	3	5	X	X	X	

Goal 5: protect and restore nesting seabird populations on the refuge complex's coastal islands to contribute to regional and international seabird conservation goals

Project Description	Staffing (FTEs)	Cost Year 1 (x\$1000)	Cost recurring (x \$1000)	Project Duration (years)	Alt A	Alt B	Alt C	Alt D
Wildlife Biologist to oversee all island programs - (GS-11)	1.0	65	65	15			X	
Contract with a local trapper to actively manage owl and mammal predators at seabird restoration sites experiencing high levels of predation.		2	2	15	X	X	X	
Provide National Audubon funding to support cooperatively managed seabird colonies at Pond, Seal and Matinicus Rock.		25	25	15	X	X	X	
Provide continued funding to support restoration programs at Petit Manan, Ship and Metinic Islands.		36	36	15	X	X	X	
Purchase three burrow scopes to determine productivity of alcid burrows at Seal, Matinicus Rock, and Petit Manan Island.		15		1		X	X	
Initiate three new alcid restoration projects on islands supporting puffin and razorbill habitat.		45	30	15		X	X	
Restore seabirds to twelve historic islands (18 total). Hire Wildlife Biologist GS-12.	1.0	254	159	15			X	
Purchase new 23' boat to support new restoration projects for terns and alcids.		50		1		X	X	

Appendix E – Refuge Operations Needs System and Management Maintenance System

Goal 6: provide enjoyment and stewardship of coastal maine wildlife and their habitats by providing priority, wildlife-dependent recreational and educational opportunities

Project Description	Staffing (FTEs)	Cost Year 1 (x\$1000)	Cost recurring (x \$1000)	Project Duration (years)	Alt A	Alt B	Alt C	Alt D
Outdoor Recreation Planner to oversee all public use programs (GS-11)	1.0	65	65	15		X	X	
Provide staffing for Coastal Education Center - Outdoor Recreation Planner - (GS-7)	1.0	118	53	15		X		
Produce a video and interactive computer program about seabird restoration for use in classrooms and at the Coastal Education Center		60		2		X	X	
Install web-cams at two restored seabird colonies and develop a web-based environmental education program.		140	3	15			X	
Produce interpretive panels for Birch Point Trail and Halifax Island.		25		1		X	X	
Provide interpretive services on refuge's mainland divisions. (2 summer interns)		8	8	15			X	
Expand outreach, education and interpretation of coastal resources - (ORP GS-11, GS-7)	2.0	257	127	15			X	
Construct a parking lot and interpretive trail at the Sawyer's Marsh Division.		25		1		X	X	
Install refuge interpretive panels at three rest areas and three Tourism Centers.		8		1			X	
Develop and produce five refuge brochures interpreting natural and cultural resources for use in Chambers of Commerce and Tourist Welcome Centers.		102		1			X	
Provide interpretive interns to all tour boats visiting refuge islands (7)		25	25	9			X	
Improve outreach aboard commercial tour boats to refuge islands through interpretive panels and seasonal interpreters (3 summer interns).		13	5	15		X		
Increase law enforcement to oversee Refuge Hunt Program, enforce seasonal closures and educate visitors. (LE- GS-9)	1.0	128	63	15		X	X	
Produce refuge brochures on hunting opportunities and "Leave No Trace" principles		6		1		X	X	

Proposed projects not currently in the RONS Database

Increase law enforcement to enforce closure of all refuge property to public use (3 LE - GS-5/7)	3.0	351	156	15				X
Construct one barrier-free observation platform and one photo blind on one of the three mainland divisions.		30		1		X	X	
Provide regulatory and interpretive signing on all Refuge islands and future acquisitions (87 new islands).		65		15		X		
Provide regulatory and interpretive signing on all Refuge islands and future acquisitions (151 new islands)		138		15			X	

Goal 7: protect the integrity of coastal maine wildlife and habitats through an active land acquisition and protection program

Project Description	Staffing (FTEs)	Cost Year 1 (x\$1000)	Cost recurring (x \$1000)	Project Duration (years)	Alt A	Alt B	Alt C	Alt D
Improve maintenance support of all Complex programs. (WG-8)	1.0	105	40	15				X
Restore historic lighthouse structures to national and state preservation standards (WG-7)	1.0	116	51	15		X	X	
Provide maintenance and boat support for all Refuge programs on existing lands - Small Craft Operator - (WG-8)	1.0	105	40	15		X	X	X

Goal 8: communicate and collaborate with local communities, federal, state and local representatives, and other organizations throughout coastal maine to further the mission of the national wildlife refuge system.

Project Description	Staffing (FTEs)	Cost Year 1 (x\$1000)	Cost recurring (x \$1000)	Project Duration (years)	Alt A	Alt B	Alt C	Alt D
Purchase a new phone system capable of providing current Refuge regulations, events and information.		0.5				X	X	
Provide AM radio frequency for visitors to receive current refuge information, openings/closings		30	2	15			X	

Grand Total for RONS Projects from Tables E-1, E-2 and E-3				
	Alternative A, Current Management	Alternative B, Proposed Action	Alternative C	Alternative D
Year 1 - Project Costs	\$66,000	\$5,870,000	\$7,130,500	\$508,000
Recurring Project Costs	\$66,000	\$1,184,000	\$1,971,000	\$248,000

***Based on FY2002 budget appropriations**

Table E-4 *Projects currently backlogged in the Maintenance Management System (MMS) FY2003 Database for Petit Manan NWR*

Project #	Project Description	Cost Estimate (\$1,000)
98500	Rehabilitate Deteriorated Two Bush Island Lighthouse	\$76
00002	Rehabilitate Historic Oil House Building - Petit Manan Island	315
03002	Repair Historic Matinicus Rock Light Tower #2	125
00004	Rehabilitate Egg Rock Light Station	500
98500	Remove debris and fill foundations on three Lighthouse Islands	101
00006	Replace Egg Rock Boat Ramp	387
00017	Replace 1998 Dodge Grand Caravan - Milbridge	28
02001	Replace 1998 Dodge Grand Caravan - Rockport	28
02007	Replace 1999 Dodge Ram 4X4 V8	25
02005	Replace 1999 Ford Explorer	25
02008	Replace 1998 23' Mako with twin Honda 90 HP motors	45
02003	Replace 1999 Dodge Ram 4X4 V-8 truck	25
02002	Replace 2001 Dodge Ram V10 truck	32
00013	Repair Mague Flowage Dike	41
03001	Replace 1992, 18' Aluminum Skiff, Motor, and Trailer	25
	GRAND TOTAL	1,778